

# AM4117MT-RFYW



**Brand:**  
**Product Code:** AM4117MT-RFYW

## Short Description

1.3 Megapixel  
High Sensitivity Sensor  
Red Fluorescence  
Dual Lighting  
Robust Metal Housing

## Description

Detect red fluorescence emissions with the AM4117MT-RFYW high sensitivity 10x ~ 220x digital microscope. AM4117MT-RFYW has a 575 nm excitation light and provides clear images of samples labeled with fluorescent probes such as mRFP, mCherry, and Alexa Fluor 594, making it ideal for applications in research, medical diagnostics, and forensics.

## Working distance/field of view/depth of field

M	WD	FOV (x)	FOV (y)	DOF
10	142.8	39.1	29.3	23.5
20	59.9	19.5	14.7	6.3
30	33.3	13.0	9.8	3.0
40	20.6	9.8	7.3	1.8
50	13.6	7.8	5.9	1.2
60	9.4	6.5	4.9	0.9

70	6.8	5.6	4.2	0.7
80	5.3	4.9	3.7	0.6
90	4.3	4.3	3.3	0.5
100	3.9	3.9	2.9	0.4
110	3.8	3.6	2.7	0.3
120	3.9	3.3	2.4	0.3
130	4.2	3.0	2.3	0.3
140	4.7	2.8	2.1	0.2
150	5.4	2.6	2.0	0.2
160	6.1	2.4	1.8	0.2
170	6.9	2.3	1.7	0.2
180	7.7	2.2	1.6	0.2
190	8.7	2.1	1.5	0.2
200	9.6	2.0	1.5	0.1
210	10.7	1.9	1.4	0.1
220	11.7	1.8	1.3	0.1

## Specification

Lighting	
Light/ LED type	Excitation Light ( $\lambda_{\text{peak}} = 575 \text{ nm}$ ) White Light
Optics	
Magnification	10x ~ 220x
Sensor	
Resolution	1.3 Megapixel (1280 x 960)
Maximum frame rate	30 fps at 1.3 MP, MJPEG 30 fps at VGA, MJPEG
Compatibility	
Interface	USB 2.0
Operating system	Windows 10/11 macOS 10.14 or later
Housing	
Magnification lock	Yes
Dimensions	104 mm (H) x 32 mm (D)
Weight	Approx. 90 g
Cable length	Approx. 1.8 m
Features	
Measurement	Yes
Calibration	Yes
Microtouch sensor	Yes
Information	
Package contents	Microscope, carry pouch, calibration target, user manual, N3C-O- Open cap, N3C-C- Closed cap, N3C-D- diffuser cap, N3C-E- Extension cap, N3C-L- Long cap, N3C-S- Side light cap

Warranty information	2 years European warranty
Regulatory approval	CE, FCC, ROHS